

NWS Form E-5

(04-2006)

(PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

San Angelo, TX

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:

MONTH

YEAR

August

2012

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE

Jason Johnson

DATE

September 17, 2012

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

☒ An X inside this box indicates that no flooding occurred within this hydrologic service area.

During the month of August, many areas across the San Angelo hydrologic service area (HSA) received below normal rainfall. The month began hot and dry with an upper level high pressure system situated over the southern Plains. During the first week of the month, afternoon high temperatures ranged from 100 to 110 degrees. Near mid-month, the upper level ridge moved northwest into the Four Corners region and allowed weak northerly flow over the San Angelo HSA. This pattern allowed showers and thunderstorms to develop that produced isolated areas of heavy rainfall from the 8th-9th and then again from the 13th-17th. Scattered areas between Interstate 20 and Interstate 10 received 1.5 to 2.5 inches of rain. Toward the end of the month, an upper level ridge of high pressure began to build back over the southern Plains, bringing a return to hot and dry conditions.

Drought conditions intensified across the HSA during August. North of Interstate 20, extreme to exceptional drought conditions spread due to the hot and dry conditions. Severe drought conditions spread across western portions of the HSA during the month. The USGS Water Watch showed daily streamflows in the HSA were well below normal during much of the month.

The average precipitation reported from coop observers in August was 1.61 inches. The highest monthly precipitation total of 2.67 inches was reported in northern Throckmorton County. Coop observers in Coleman, Runnels and Throckmorton Counties received at least 2.50 inches of rain in August.

The San Angelo Regional Airport received 0.77 of an inch of rain during August, which was 1.49 inches below normal for the month. The monthly normal rainfall for San Angelo in August is 2.26 inches.

The Abilene Regional Airport received 1.20 inches of rain during August, which was 1.39 inches below normal for the month. The monthly normal rainfall for Abilene in August is 2.59 inches.

Junction received 0.53 of an inch of rain during August. The estimated average monthly rainfall in August is about 2.75 inches.

Coop Observer Rainfall Totals for August, 2012:

Station Name	Amount (in)		Station Name	Amount (in)
Abilene	0.95		Mertzon 12WNW	0.42
Anson	1.95		Ozona	2.27
Ballinger 2NW	2.50		Ozona 22SE	0.69
Brady	1.87		Paint Rock	2.44
Brownwood	2.09		Putnam	1.91
Burkett	2.37		Red Bluff Crossing	1.00
Coleman	2.56		Roscoe	0.54
Concho Park	2.23		Rotan	1.84
Eden	1.06		San Angelo WFO	0.71
Eldorado	1.69		San Saba 7NW	2.18
Fort Griffin	1.63		Santa Anna 12SSE	2.34
Fort McKavett	1.25		Silver Valley	2.30
Glen Cove 2NE	0.90		Sonora	0.33
Hamlin	1.31		Stamford	1.43
Haskell	1.17		Sterling City	2.67
Hords Creek Dam	1.20		Taylor Ranch	2.07
Junction 4SSW	0.89		Throckmorton 7NE	2.67
Lake Abilene	0.43		Water Valley	0.96
Mason	1.60		Water Valley 11NE	0.47
Menard	2.14		Woodson	2.21
Merkel 12SW	1.32			

Reservoir Conditions (end of August, 2012)

Reservoir	Conservation Capacity (Ac-Ft)	End of Month Capacity (Ac-Ft)	Percent of Capacity (%)
Fort Phantom Hill	70,030	30,140	43
Lake Stamford	51,570	16,790	33
Hubbard Creek Lake	317,800	114,840	36
Hords Creek Lake	8,800	600	7
Lake Brownwood	131,428	64,000	49
E.V. Spence	488,760	1,540	0
O.C. Fisher	119,200	0	0
O.H. Ivie	554,340	77,230	14
Twin Buttes	177,800	9,060	5

Hydro Products Issued

FLS = 1 (Flood Advisory)

ESF = 2 (Probabilistic Forecast)

The NWS precipitation analysis can be viewed at <http://water.weather.gov/>.

The total monthly precipitation estimate and percent of normal precipitation for August across the San Angelo HSA is depicted below.

